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01-02-02

PTO/SB/05 (03-01)

Approved through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. 389335

First Inventor Donald W. Bernian

Title SYSTEM AND METHOD FOR RAPIDLY CONTROLLING THE
OUTPUT OF AN ION SOURCE FOR ION IMPLANTATION

Express Mail Label No. EL656245354US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 17]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the invention
 - Brief Summary of the invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 2]
5. Oath or Declaration [Total Pages 4]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for a continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATIONS PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. §3.73(b) Statement ☒ Power of
(when there is an assignee) Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure ☐ Copies of IDS
Statement (IDS)/PTO-1449 Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122
(b)(2)(B)(i). Applicant must attach form PTO/SB/35
or its equivalent.
17. ☒ Other: Assignment Recordation

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No: ____ / ____

Prior application information: Examiner ____

Group / Art Unit: ____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

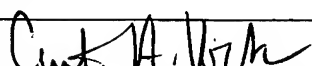
17. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

Name	Curtis A. Vock, Esq.				
	LATHROP & GAGE L.C.				
Address	4845 Pearl East Circle, Suite 300				
City	Boulder	State	CO	Zip Code	80301
Country	USA	Telephone	303-449-5800	Fax	303-443-6998

Name (Print/Type)	Curtis A. Vock	Registration No. (Attorney/Agent)	38,356
Signature		Date	10/19/01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

**FEE TRANSMITTAL
for FY 2002**

Patent fees are subject to annual revision.

Complete if Known

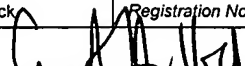
TOTAL AMOUNT OF PAYMENT (\$) 452

Application Number	Not Assigned
Filing Date	Herewith
First Named Inventor	Donald W. Berrian
Examiner Name	Unknown
Group / Art Unit	Unknown
Attorney Docket No.	389335

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)	
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:		3. ADDITIONAL FEES	
Deposit Account Number: 12-0600		Large Entity Fee Code (\$)	Small Entity Fee Code (\$)
Deposit Account Name: LATHROP & GAGE L.C.		Fee Description	Fee Paid
<input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17		105 130 205 65	Surcharge - late filing fee or oath
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		127 50 227 25	Surcharge - late provisional filing fee or cover sheet.
2. <input checked="" type="checkbox"/> Payment Enclosed:		139 130 139 130	Non-English specification
<input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other		147 2,520 147 2,520	For filing a request for reexamination
FEE CALCULATION		112 920* 112 920*	Requesting publication of SIR prior to Examiner action
1. BASIC FILING FEE		113 1,840* 113 1,840*	Requesting publication of SIR after Examiner action
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	115 110 215 55	Extension for reply within first month
Fee Description	Fee Paid	116 400 216 200	Extension for reply within second month
101 740 201 370	Utility filing fee	117 920 217 460	Extension for reply within third month
106 330 206 165	Design filing fee	118 1,440 218 720	Extension for reply within fourth month
107 510 207 255	Plant filing fee	128 1,960 228 980	Extension for reply within fifth month
108 740 208 370	Reissue filing fee	119 320 219 160	Notice of Appeal
114 160 214 80	Provisional filing fee	120 320 220 160	Filing a brief in support of an appeal
SUBTOTAL (1) (\$ 370)		121 280 221 140	Request for oral hearing
2. EXTRA CLAIM FEES		138 1,510 138 1,510	Petition to institute a public use proceeding
Total Claims 20 -20 ** = 0	Extra Claims Fee from below Fee Paid	140 110 240 55	Petition to revive - unavoidable
Independent Claims 4 -3 ** = 1	X 42 = 42	141 1,280 241 640	Petition to revive - unintentional
Multiple Dependent	X = 0	142 1,280 242 640	Utility issue fee (or reissue)
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	143 460 243 230	Design issue fee
Fee Description	Fee Paid	144 620 244 310	Plant issue fee
103 18 203 9	Claims in excess of 20	122 130 122 130	Petitions to the Commissioner
102 84 202 42	Independent claims in excess of 3	123 50 123 50	Processing fee under 37 CFR 1.17 (q)
104 280 204 140	Multiple dependent claim, if not paid	126 180 126 180	Submission of Information Disclosure Stmt
109 84 209 42	** Reissue independent claims over original patent	581 40 581 40	Recording each patent assignment per property (times number of properties)
110 18 210 9	** Reissue claims in excess of 20 and over original patent	146 740 246 370	Filing a submission after final rejection (37 CFR § 1.129(a))
SUBTOTAL (2) (\$ 42)		149 740 249 370	For each additional invention to be examined (37 CFR § 1.129(b))
**or number previously paid, if greater; For Reissues, see above		179 740 279 370	Request for Continued Examination (RCE)
		169 900 169 900	Request for expedited examination of a design application
		Other fee (specify) _____	
		*Reduced by Basic Filing Fee Paid	SUBTOTAL (3) (\$ 40)

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Curtis A. Vock	Registration No. Attorney/Agent)	38,356	Telephone	303-449-5800
Signature				Date	10/19/01

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Donald W. Berrian

Application No.: Not Assigned
Filed: Herewith

Group No.: Not Assigned
Examiner: Not Assigned

For: SYSTEM AND METHOD FOR RAPIDLY CONTROLLING THE OUTPUT OF AN ION
SOURCE FOR ION IMPLANTATION

Box Patent Application
Commissioner for Patents
Washington, D.C. 20231

EXPRESS MAIL CERTIFICATE

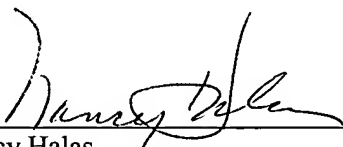
"Express Mail" label number EL656245354US

Date of Deposit: October 19, 2001

I hereby state that the following *attached* papers

1. Utility Patent Application Transmittal – 1 page;
2. Fee Transmittal – 1 page;
3. Check in the amount of \$452.00;
4. Specification - 17 pages (including 5 pages of claims numbered 1-20, and 1 page of Abstract,);
5. Drawings - 2 sheets, (Figs. 1-4);
6. Combined Declaration and Power of Attorney – 4 pages;
7. Assignment – 3 pages;
8. Assignment Recordation Form Cover Sheet – 2 pages;
9. Certificate of Mailing; and
10. Return Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the date indicated above and is addressed to: Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.



Nancy Halas

Applicant: Donald W. Berrian Attorney Docket No.: 389335
Serial No.: Not Assigned Client: Proteros, LLC
Filed: Herewith
For: SYSTEM AND METHOD FOR RAPIDLY CONTROLLING THE
OUTPUT OF AN ION SOURCE FOR ION IMPLANTATION

1c996 U.S. PTO
10/032664
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Please acknowledge receipt of the following by stamping this card with the date received and returning it to the address on the reverse:

1. Utility Patent Application Transmittal - 1 page;
2. Fee Transmittal - 1 page;
3. Check in the amount of \$452.00;
4. Specification - 17 pages (including 5 pages of claims numbered 1-20, and 1 page of Abstract,);
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7. Assignment - 3 pages;
8. Assignment Recordation Form Cover Sheet - 2 pages;
9. Certificate of Mailing; and
10. Return Postcard

Curtis A. Vock
Reg. No. 38,356

Express Mail Label No. EL656245354US
October 19, 2001

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DATE October 19, 2001

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Matter No. 389335

Curtis A. Vock

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